

status quo

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new premise

_a stretched, "blank canvas" of high-tech knit fabric

new premise

_interacts with a sitting body to create a seat together

active sitting

_active seating principle reduces pressure points and encourages blood flow

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pressure points

_a correct and even distribution of weight is essential for sitting comfort

adjustability

_immediately conforms to changes in sitting position _constantly supports the body in all posture variations

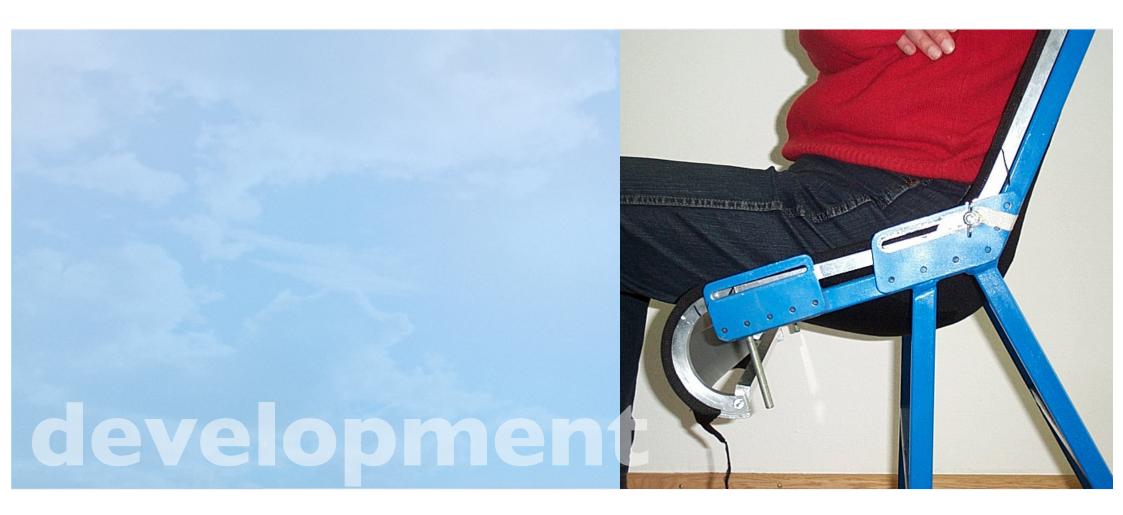
micro-climate

_open mesh knit provides optimal microclimate

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_an iterative process in order to determine how best to engineer the knit



development



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development



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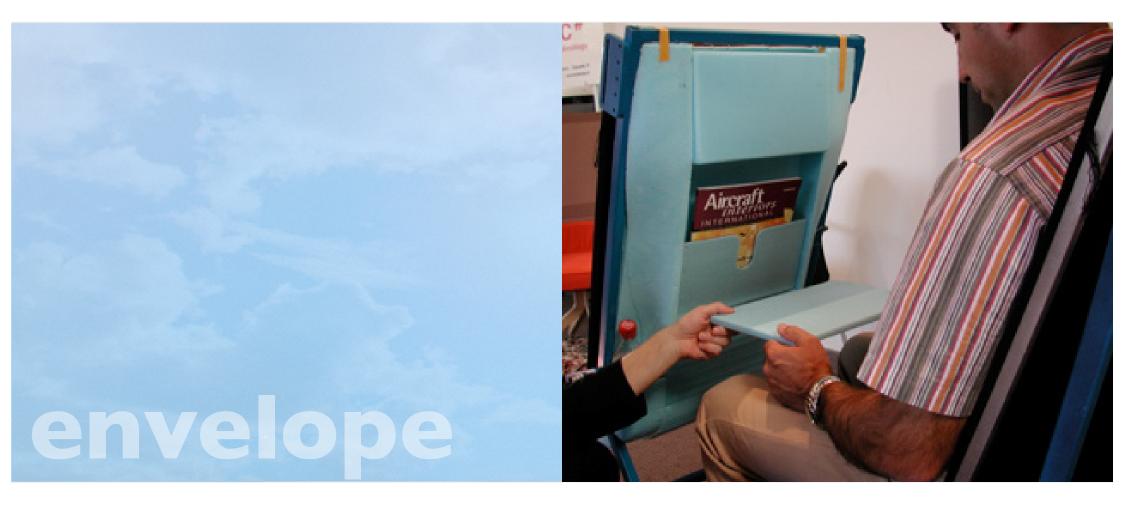


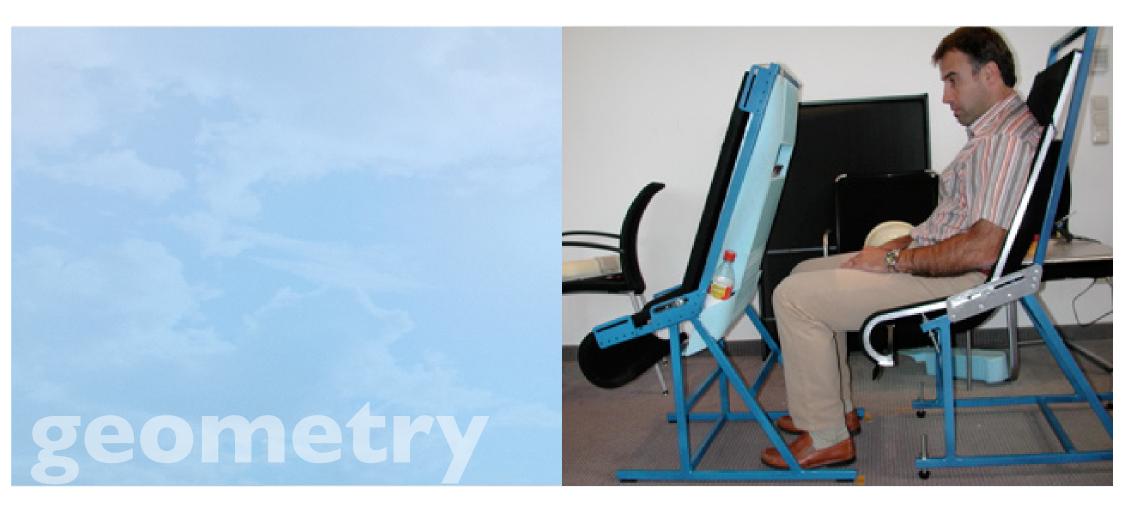
engineered zone

_each stitch in each zone of the aeras knit fits uniquely to each form and weight



_minimal seat cushioning creates a basis for approaching the backshell in an unfettered manner





_open angle (171°) of the frame geometrically supports the knit material in unhindered adjusting to the body _since the body defines the sitting position, it has more options if the frame is not in the traditional geometry







_flammability 12s/60s_vertical burn test/ABD 0031,

_smoke density flaming & non-flaming, toxicity_heat release

_load tests, martindale, dynamic fatigue and wellness test (details available)

", the comfort of the seats was predominantly judged positively, so that no serious restrictions or reservations regarding their operation exist" IAD

the evaluation of the comfort level was shown to increase over time.

comfort testing

_ darmstadt university of technology, germany (IAD), a leading aircraft manufacturer and a major european airline



 $_unsurpassed$ sitting comfort in all body positions, reduced pressure points and increased blood flow

_good micro-climate through air permeability of aeras knit™

_target weight 8kg / pax



_seat certification

_two independent application developments

ludekedesign

studio for industrial design switzerland www.ludekedesign.com

a primary focus is the airline industry, with over 15 years experience

kobleder#

advanced knitting technologies austria www.kobleder.at

market leader in technical knits setting new standards for knit technology

greiner purtec

manufacturer of aircraft seating foams austria www.greinerpurtec.at

35 years of experience producing comfort for the airline industry from foams to material innovations and services.

aeras partners

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"The most important innovations are those that change our way of thinking." Prof. Dr. Hans-Jürgen Quadbeck-Seeger

thank you

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